RAW SEQUENCE LISTING PATENT APPLICATION US/08/676,125

DATE: 05/05/97 TIME: 15:24:16

INPUT SET: S17426.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

	1		SEQUENCE LISTING eneral Information:
	2		
	3	(1) Ge	eneral Information:
	4 5 6	(i)	APPLICANT: MARKLAND, William LADNER, Robert Charles
	7 8 9	(ii)	TITLE OF INVENTION: KALLIKREIN-INHIBITING "KUNITZ DOMAIN" PROTEINS AND ANALOGUES THEREOF
	10		
	11	(111)	NUMBER OF SEQUENCES: 69
	12 13	/ i ** \	CORRESPONDENCE ADDRESS:
	14	(10)	(A) ADDRESSEE: Browdy and Neimark
	15		(B) STREET: 419 Seventh Street N.W., Ste. 300
	16		(C) CITY: Washington
	17		(D) STATE: D.C.
	18		(E) COUNTRY: United States of America
	19		(F) ZIP: 20004
	20		
	21	(V)	COMPUTER READABLE FORM:
	22		(A) MEDIUM TYPE: Floppy disk
	23		(B) COMPUTER: IBM PC compatible
	24		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
	25		(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
	26		
	27	(vi)	CURRENT APPLICATION DATA:
>	Ø€ 28		(A) APPLICATION NUMBER: US
	29		(B) FILING DATE:
	30		(C) CLASSIFICATION:
	31 32	/ • • · · · · · ·	DDIAD ADDITAMIAN DAMA.
	32	(\(\tau \)	PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: PCT/US95/00299
	34		(B) FILING DATE: 11-JAN-1995
	35		(b) Fibing Date: II-Gan-1995
	36	(vii)	PRIOR APPLICATION DATA:
	37	((A) APPLICATION NUMBER: US 08/179,964
	38		ini
	39		(B) FILING DATE: II-JAN-1994
	40	(vii)	PRIOR APPLICATION DATA:
	41		(A) APPLICATION NUMBER: US 08/208,264
	42		(B) FILING DATE: 10-MAR-1994
	43		
	44	(viii)	ATTORNEY/AGENT INFORMATION:
	45		(A) NAME: COOPER, Iver P.
	46		(B) REGISTRATION NUMBER: 28,005

RAW SEQUENCE LISTING PATENT APPLICATION US/08/676,125

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47
               (C) REFERENCE/DOCKET NUMBER: MARKLAND=1B
48
49
         (ix) TELECOMMUNICATION INFORMATION:
50
               (A) TELEPHONE: (202) 628-5197
               (B) TELEFAX: (202) 737-3528
51
52
53
54
       (2) INFORMATION FOR SEQ ID NO:1:
55
56
        (i) SEQUENCE CHARACTERISTICS:
57
              (A) LENGTH:8 amino acids
58
              (B) TYPE: amino acid
59
              (C) STRANDEDNESS: single
60
              (D) TOPOLOGY: linear
61
62
      (ii) MOLECULE TYPE: protein
63
64
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
65
66
    Ile Val Gly Gly Thr Asn Ser Ser
67
      1
                       5
68
69
     (2) INFORMATION FOR SEQ ID NO:2:
70
71
          (i) SEQUENCE CHARACTERISTICS:
72
              (A) LENGTH:58 amino acids
73
              (B) TYPE: amino acid
74
              (C) STRANDEDNESS: single
75
              (D) TOPOLOGY: linear
76
77
        (ii) MOLECULE TYPE: protein
78
79
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
80
81
    Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala
82
83
84
    Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
85
                                       25
86
    Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala
87
88
              35
                                   40
89
90
    Glu Asp Cys Met Arg Thr Cys Gly Gly Ala
91
92
    (2) INFORMATION FOR SEQ ID NO:3:
93
94
95

★(i) SEQUENCE CHARACTERISTICS:

              (A) LENGTH:58 amino acids
96
97
              (B) TYPE: amino acid
98
              (C) STRANDEDNESS: single
99
              (D) TOPOLOGY: linear
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100
101
         (ii) MOLECULE TYPE: protein
102
103
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
104
105
     Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly Pro Cys Lys Ala
106
107
108
     Ile Met Lys Arg Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu Glu
109
110
111
     Phe Ile Tyr Gly Gly Cys Glu Gly Asn Gln Asn Arg Phe Glu Ser Leu
112
113
114
     Glu Glu Cys Lys Lys Met Cys Thr Arg Asp
115
116
     (2) INFORMATION FOR SEQ ID NO:4:
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119
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               (B) TYPE: amino acid
120
               (C) STRANDEDNESS: single
121
               (D) TOPOLOGY: linear
122
123
124
         (ii) MOLECULE TYPE: protein
125
126
127
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
128
129
     Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly His Cys Lys Ala
130
131
132
     Asn His Gln Arg Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu Glu
133
134
135
     Phe Ser Tyr Gly Gly Cys Gly Gly Asn Gln Asn Arg Phe Glu Ser Leu
136
137
138
     Glu Glu Cys Lys Lys Met Cys Thr Arg Asp
139
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     (2) INFORMATION FOR SEQ ID NO:5:
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142
           (i) SEQUENCE CHARACTERISTICS:
143
               (A) LENGTH:58 amino acids
               (B) TYPE: amino acid
144
145
               (C) STRANDEDNESS: single
146
               (D) TOPOLOGY: limear
147
          (ii) MOLECULE TWPE: protein
148
149
150
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
151
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/676,125

DATE: 05/05/97 TIME: 15:24:23

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153 154	Met 1	His	Ser	Phe	Cys 5	Ala	Phe	Lys	Ala	Asp 10	Asp	Gly	His	Cys	Lys 15	Ala	
155 156 157	Ser	Leu	Pro	Arg 20	Phe	Phe	Phe	Asn	Ile 25	Phe	Thr	Arg	Gln	Cys 30	Glu	Glu	
158 159 160	Phe	Ile	Tyr 35	Gly	Gly	Cys	Glu	Gly 40	Asn	Gln	Asn	Arg	Phe 45	Glu	Ser	Leu	
161 162 163	Glu	Glu 50	Cys	Lys	Lys	Met	Cys 55	Thr	Arg	Asp							
164 165 166 167	(2)) SE(QUEN	FOR CE CI	IARA	CTER:	ISTIC	cs:								
168 169 170		(A) LENGTH:58 amino acids(B) TYPE: amino acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear															
171 172 173		(ii)) MOI	LECUI	LE T	PE:	prot	tein									
174 175 176		(xi) SE(QUEN	CE DI	ESCR	[PTIC	on: s	SEQ I	ID NO	0:6:						
177 178 179	Met 1	His	Ser	Phe	Cys 5	Ala	Phe	Lys	Ala	Asp 10	Asp	Gly	Pro	Cys	Lys 15	Ala	
180 181 182	Asn	His	Leu	Arg 20	Phe	Phe	Phe	Asn	Ile 25	Phe	Thr	Arg	Gln	Cys 30	Glu	Glu	·
183 184 185	Phe	Ser	Tyr 35	Gly	Gly	Cys	Gly	Gly 40	Asn	Gln	Asn	Arg	Phe 45	Glu	Ser	Leu	
186 187 188	Glu	Glu 50	Cys	Lys	Lys	Met	Cys 55	Thr	Arg	Asp							
189 190 191 192 193 194 195	(2)		(A) (B) (C)	QUENC LEI TYI STI	FOR CE CH NGTH: PE: 6 RANDE	HARAG 58 a amino EDNES	emino amino aci ss: s	STIC aci id sing]	CS: Lds								
196 197					LE TY		_										
198 199	L				CE DE							a 1	** :	~	-		
200 201 202	1				Cys 5					10					15		•
203 204 205	Asn	His	Gln	Arg 20	Phe	Phe	Phe	Asn	Ile 25	Phe	Thr	Arg	Gln	Cys 30	Glu	Glu	•

RAW SEQUENCE LISTING PATENT APPLICATION US/08/676,125

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Phe	Thr	Tyr 35	Gly	Gly	Cys	Gly	Gly 40	Asn	Gln	Asn	Arg	Phe 45	Glu	Ser	Leu
Glu	Glu	Cys	Lys	Lys	Met	Cys	Thr	Arg	Asp						
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		(η) 1.01	SOTO	έ¥: .	Line	ar								
	(ii) MOI	LECUI	LE T	YPE:	pro	tein								
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:														
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		35					40					45			
Glu	Glu	Cys	Lys	Lys	Met	Cys	Thr	Arg	Asp						
	50					55									
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	(ii) MOI	LECUI	LE T	YPE:	pro	tein								
	(xi) SE	QUEN	CE DI	ESCR	IPTI	ON: S	SEQ :	ID NO	0:9:					
Met	His	Ser	Phe	Cvs	Ala	Phe	Lvs	Ala	Asp	Asp	Glv	His	Cvs	Lvs	Ala
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Phe	Ile	_	Gly	Gly	Cys	Gly	Gly	Asn	Gln	Asn	Arg		Glu	Ser	Leu
		35					40					45	•		
Glu	Glu	Cys	Lys	Lys	Met	Cys	Thr	Arg	Asp						
		4	4	4		4			-						
	Met 1 Asn Phe Glu (2)	Glu Glu 50 (2) INF (ii (xi Met His 1 Asn His Phe Thr Glu Glu 50 (2) INF (ii (xi Met His 1 Ser Leu Phe Ile	35 Glu Glu Cys 50 (2) INFORMA (i) SE((A (B (C) (D) (ii) MO) (xi) SE(Met His Ser 1 Asn His Gln Phe Thr Tyr 35 Glu Glu Cys 50 (2) INFORMA (i) SE((A (B (C) (D (ii) MO) (xi) SE(Met His Ser 1 Ser Leu Pro Phe Ile Tyr 35	Glu Glu Cys Lys 50 (2) INFORMATION (i) SEQUENC (A) LEI (B) TYI (C) STI (D) TOI (ii) MOLECUI (xi) SEQUENC	Glu Glu Cys Lys Lys 50 (2) INFORMATION FOR (i) SEQUENCE CY (A) LENGTH (B) TYPE: 6 (C) STRANDI (D) TOPOLOG (ii) MOLECULE TY (xi) SEQUENCE DI Met His Ser Phe Cys 1 5 Asn His Gln Arg Phe 20 Phe Thr Tyr Gly Gly 35 Glu Glu Cys Lys Lys 50 (2) INFORMATION FOR (i) SEQUENCE CY (A) LENGTH (B) TYPE: 6 (C) STRANDI (D) TOPOLOG (ii) MOLECULE TY (xi) SEQUENCE DI Met His Ser Phe Cys 1 5 Ser Leu Pro Arg Phe 20 Phe Ile Tyr Gly Gly 35	Glu Glu Cys Lys Lys Met 50 (2) INFORMATION FOR SEQ (i) SEQUENCE CHARAC (A) LENGTH:58 (B) TYPE: amino (C) STRANDEDNES (D) TOPOLOGY: 1 (ii) MOLECULE TYPE: (xi) SEQUENCE DESCRI Met His Ser Phe Cys Ala 1 5 Asn His Gln Arg Phe Phe 20 Phe Thr Tyr Gly Gly Cys 35 Glu Glu Cys Lys Lys Met 50 (2) INFORMATION FOR SEQ (i) SEQUENCE CHARAC (A) LENGTH:58 (B) TYPE: amino (C) STRANDEDNES (D) TOPOLOGY: 1 (ii) MOLECULE TYPE: (xi) SEQUENCE DESCRI Met His Ser Phe Cys Ala 1 5 Ser Leu Pro Arg Phe Phe 20 Phe Ile Tyr Gly Gly Cys 35	Glu Glu Cys Lys Lys Met Cys 50 55 (2) INFORMATION FOR SEQ ID 1 (i) SEQUENCE CHARACTER: (A) LENGTH:58 amino (B) TYPE: amino ac: (C) STRANDEDNESS: (D) TOPOLOGY: line: (ii) MOLECULE TYPE: product of the composition of the co	Glu Glu Cys Lys Lys Met Cys Thr 50 (2) INFORMATION FOR SEQ ID NO:8 (i) SEQUENCE CHARACTERISTIC (A) LENGTH:58 amino acid (B) TYPE: amino acid (C) STRANDEDNESS: sing: (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: S Met His Ser Phe Cys Ala Phe Lys 1 5 Asn His Gln Arg Phe Phe Phe Asn 20 Phe Thr Tyr Gly Gly Cys Ala Gly 35 40 Glu Glu Cys Lys Lys Met Cys Thr 50 (2) INFORMATION FOR SEQ ID NO:9 (i) SEQUENCE CHARACTERISTIC (A) LENGTH:58 amino acid (C) STRANDEDNESS: sing: (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: S Met His Ser Phe Cys Ala Phe Lys 1 Ser Leu Pro Arg Phe Phe Phe Asn 20 Phe Ile Tyr Gly Gly Cys Gly Gly 35 40	Glu Glu Cys Lys Lys Met Cys Thr Arg 50 (2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ: Met His Ser Phe Cys Ala Phe Lys Ala 1 5 Asn His Gln Arg Phe Phe Phe Asn Ile 20 25 Phe Thr Tyr Gly Gly Cys Ala Gly Asn 35 40 Glu Glu Cys Lys Lys Met Cys Thr Arg 50 55 (2) INFORMATION FOR SEQ ID NO:9: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ: Met His Ser Phe Cys Ala Phe Lys Ala 1 5 Ser Leu Pro Arg Phe Phe Phe Asn Ile 20 25 Phe Ile Tyr Gly Gly Cys Gly Gly Asn 35 40	Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 55 (2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO Met His Ser Phe Cys Ala Phe Lys Ala Asp 10 Asn His Gln Arg Phe Phe Phe Asn Ile Phe 20 25 Phe Thr Tyr Gly Gly Cys Ala Gly Asn Gln 35 40 Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 55 (2) INFORMATION FOR SEQ ID NO:9: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO Met His Ser Phe Cys Ala Phe Lys Ala Asp 1 10 Ser Leu Pro Arg Phe Phe Phe Asn Ile Phe 20 25	Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 55 (2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp 10 Asn His Gln Arg Phe Phe Phe Asn Ile Phe Thr 20 25 Phe Thr Tyr Gly Gly Cys Ala Gly Asn Gln Asn 35 40 Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 55 (2) INFORMATION FOR SEQ ID NO:9: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp 10 Ser Leu Pro Arg Phe Phe Phe Asn Ile Phe Thr 20 25 Phe Ile Tyr Gly Gly Cys Gly Gly Asn Gln Asn 35 40	Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 55 (2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LEMGTH:58 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly 10 Asn His Gln Arg Phe Phe Phe Asn Ile Phe Thr Arg 20 25 Phe Thr Tyr Gly Gly Cys Ala Gly Asn Gln Asn Arg 35 40 Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 (2) INFORMATION FOR SEQ ID NO:9: (i) SEQUENCE CHARACTERISTICS: (A) LEMGTH:58 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly 1 5 10 Ser Leu Pro Arg Phe Phe Phe Asn Ile Phe Thr Arg 20 25 Phe Ile Tyr Gly Gly Cys Gly Gly Asn Gln Asn Arg 35 40	Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 (2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TypE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly His 1	Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 55 (2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TYPE: amino acid (C) STRANDENESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly His Cys 10 Asn His Gln Arg Phe Phe Asn Ile Phe Thr Arg Gln Cys 20 Phe Thr Tyr Gly Gly Cys Ala Gly Asn Gln Asn Arg Phe Glu 35 Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 (2) INFORMATION FOR SEQ ID NO:9: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TYPE: amino acid (C) STRANDENNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly His Cys 10 Ser Leu Pro Arg Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys 20 Phe Ile Tyr Gly Gly Cys Gly Gly Asn Gln Asn Arg Phe Glu 45	Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 (2) INFORMATION FOR SEQ ID NO:8: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly His Cys Lys 1 5 10 15 Asn His Gln Arg Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu 20 25 30 Phe Thr Tyr Gly Gly Cys Ala Gly Asn Gln Asn Arg Phe Glu Ser 35 40 45 Glu Glu Cys Lys Lys Met Cys Thr Arg Asp 50 (2) INFORMATION FOR SEQ ID NO:9: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:58 amino acid (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp Gly His Cys Lys 1 5 10 15 Ser Leu Pro Arg Phe Phe Phe Asn Ile Phe Thr Arg Gln Cys Glu 20 25 30 Phe Ile Tyr Gly Gly Cys Gly Gly Asn Gln Asn Arg Phe Glu Ser 35 40 45

SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/08/676,125*

DATE: 05/05/97 TIME: 15:24:34

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Error

Original Text

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Wrong application Serial Number

(A) APPLICATION NUMBER: US